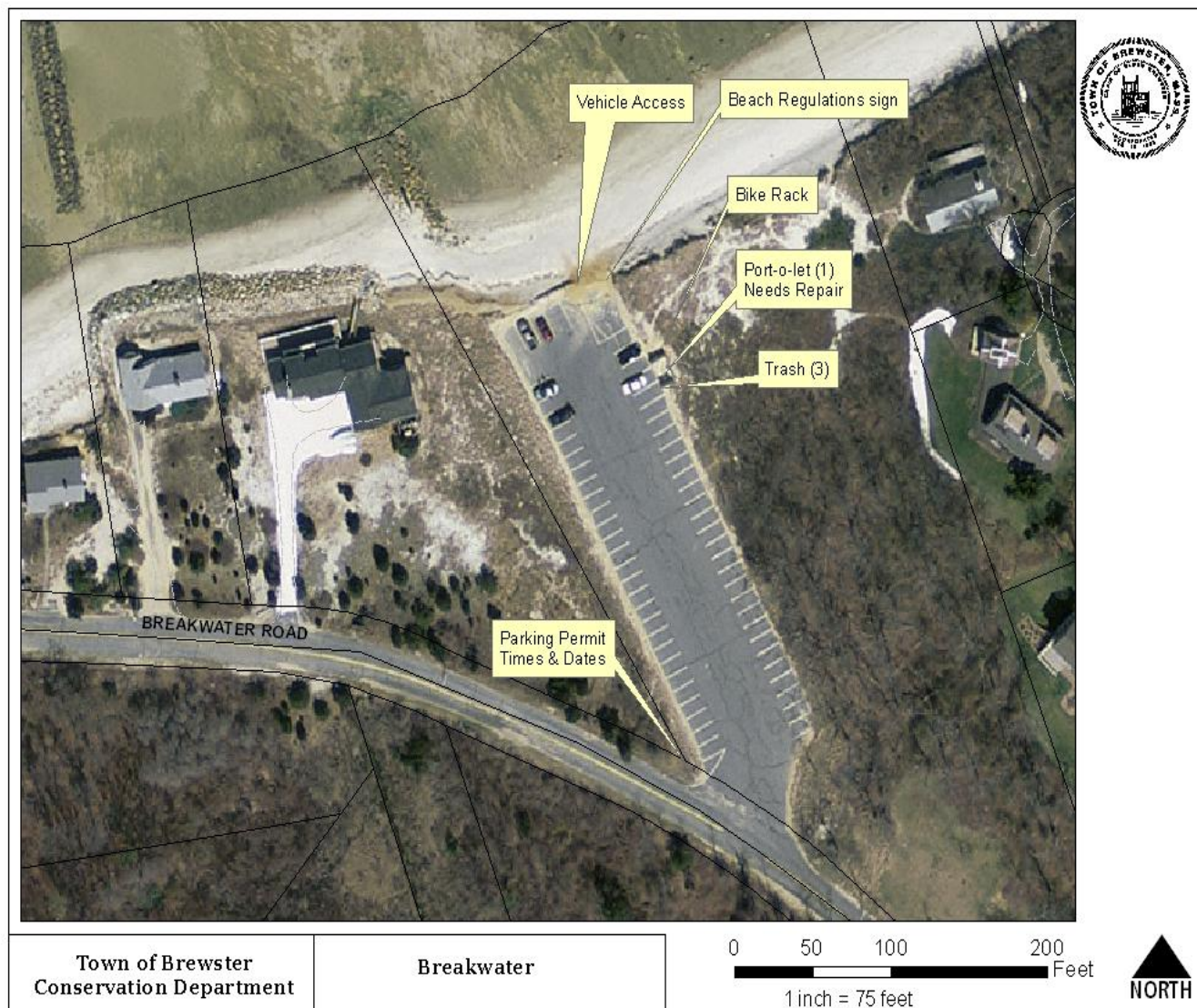


BREAKWATER BEACH

Breakwater Beach Landing 2012 existing amenities and signage

Updated 1-25-12



Location: On Breakwater Road at the first bend. Map 4 lot 55.

Parking: 62 spaces (**winter of 2009/2010 damage likely removed four parking spaces**) including two handicap spaces. Permit required June 15 to Labor Day, 9am to 3pm.

Amenities: One port-o-let and two trash containers, one bike rack (8 bikes) Memorial Day to Labor Day (inclusive). Coastal access point for aquaculture, emergency beach access for boats and vehicles.

Erosion: -0.33 to -0.39 feet per year lost.

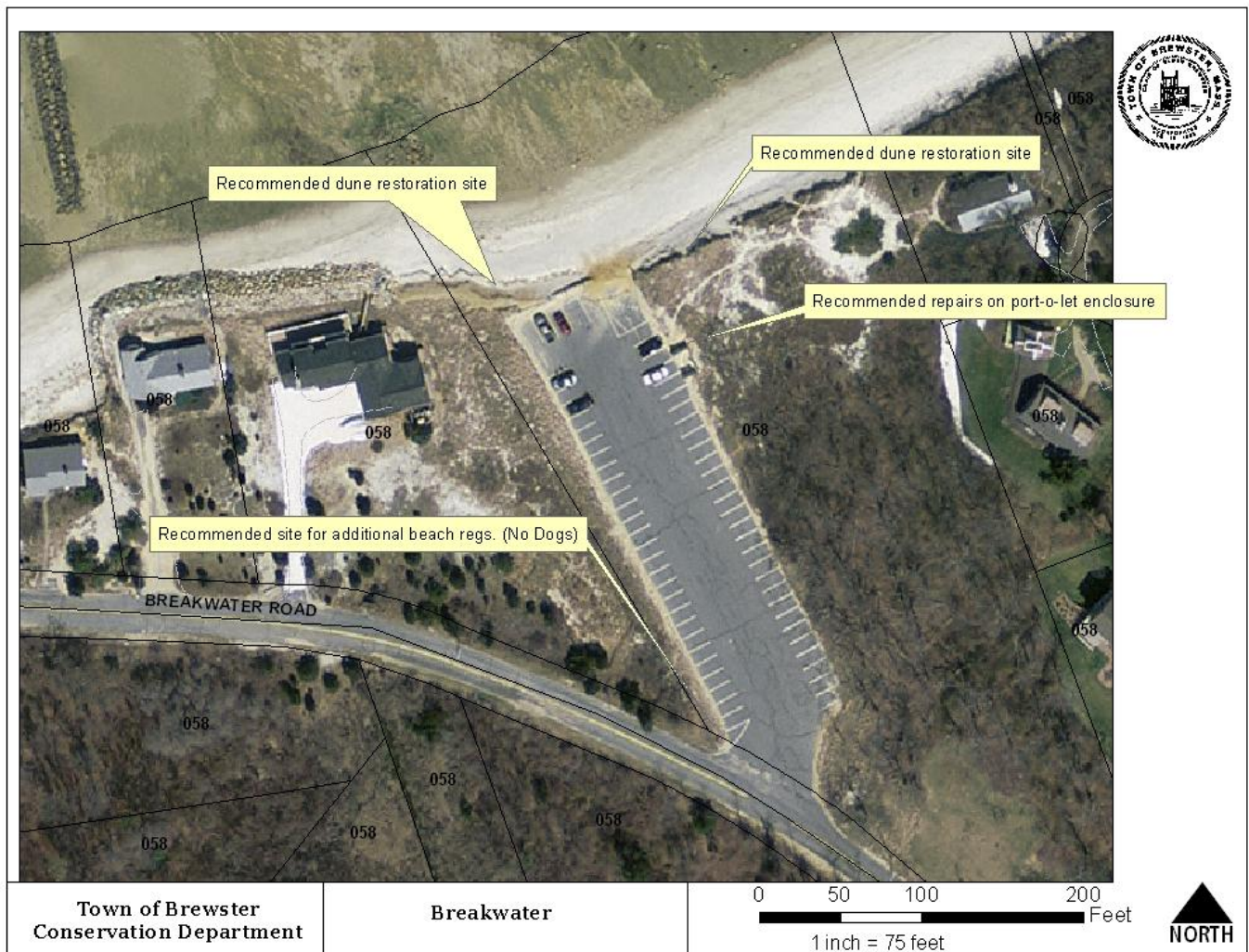
Features: Popular beach in summer. Large parking area.

The parking area is protected by a dune that was rebuilt in the spring of 2011 using sturdy fencing and beach grass stems. The current buffer has been successful in collecting migrating sand and stabilizing the dune. Further east is a back dune area currently undeveloped. A wooded/brush covered area adjoins to the southeast, which abuts a small town grassy park. On the northeast side is an eroding bluff; adjacent to the west is a soft structure and stone revetment that causes some end scour to the town property. There is also a groin and the outlet pipe for the Consodine Ditch on the western property boundary.

BREAKWATER BEACH

Breakwater Beach recommendations

Update 1-25-12



Immediate Recommendations:

There are two sites marked above that have obvious increased erosion occurring. With the success of the 2011 dune restoration project, we recommend extending the dune (with plantings) and sand drift fencing on the west side of the parking lot and joining it with the adjacent existing fencing. We also recommend erecting a new sand drift fence section on the east side of the parking area with plantings to combat erosion.

Improve no dog regulations by adding a highly visible sign at the location marked above.

Repair or replace the existing port-o-let enclosure.



West side of parking area showcasing the success of dune restoration project.



Recommended site for sand drift fencing extension with plantings.



East side of parking area recommended for additional sand drift fencing installation and planting.



Current beach parking regulations



Recommended example of additional NO DOGS

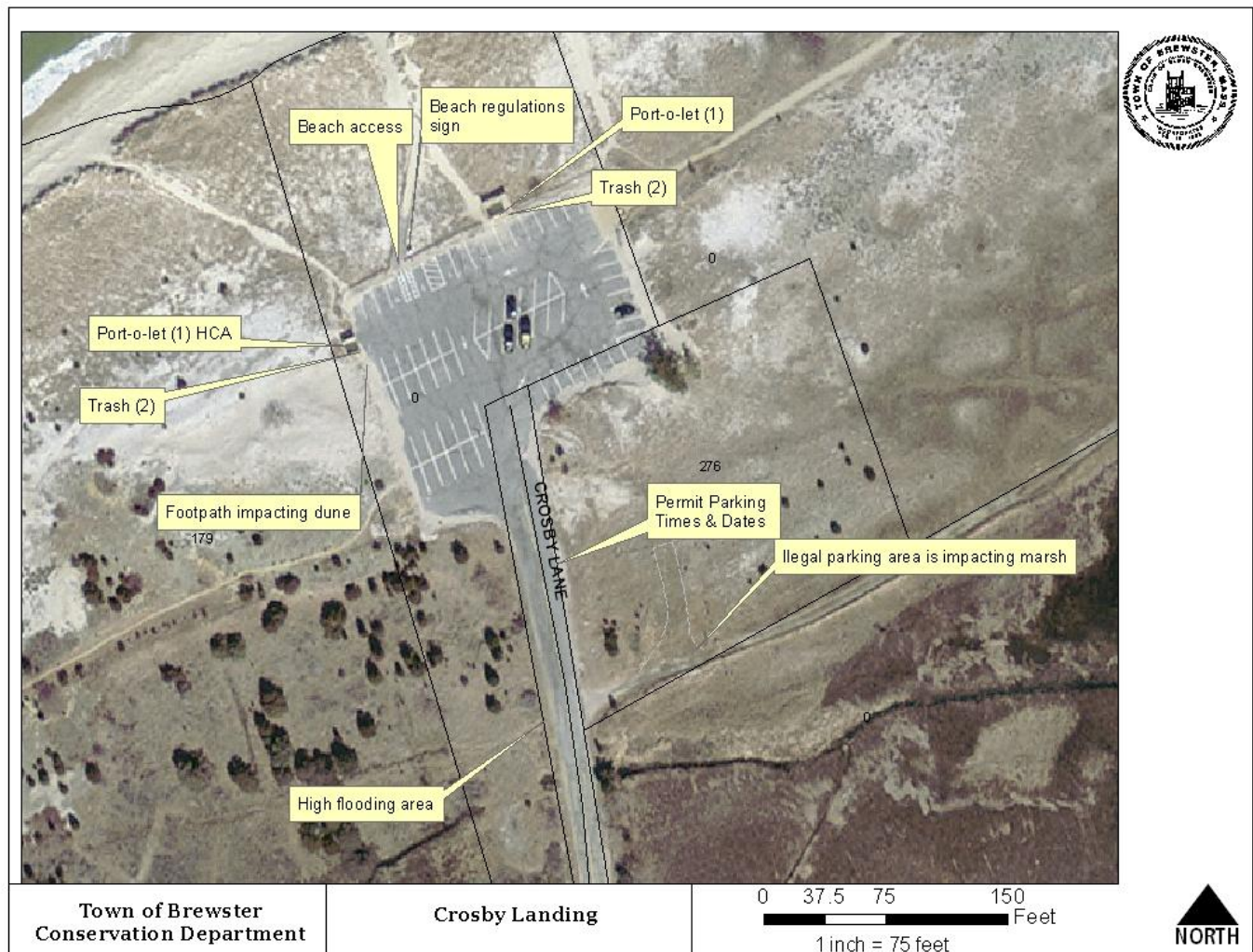


Recommended repairs to port-o-let enclosure. Boards need to be replaced and paint needs to be applied.

CROSBY BEACH

Crosby Beach 2012 existing amenities and signage

Updated 1-25-12



Location: At the end of Crosby Lane. Map 9, lot 16.1

Parking: 60 spaces including two handicap spaces. Permit required June 15 to Labor Day, 9am to 3pm.

Amenities: One port-o-let, one handicap accessible port-o-let, and four trash containers, Memorial Day to Labor Day (inclusive). No vehicle access to beach via town property.

Erosion: +0.49 to +0.85 feet per year gained.

Features: Popular beach in summer. Small anchorage located on flats to east side of beach area.

The parking area is protected by an extensive dune system. State property abuts to each side, with Namskaket marsh to the east, and Linnel Landing further to the west.

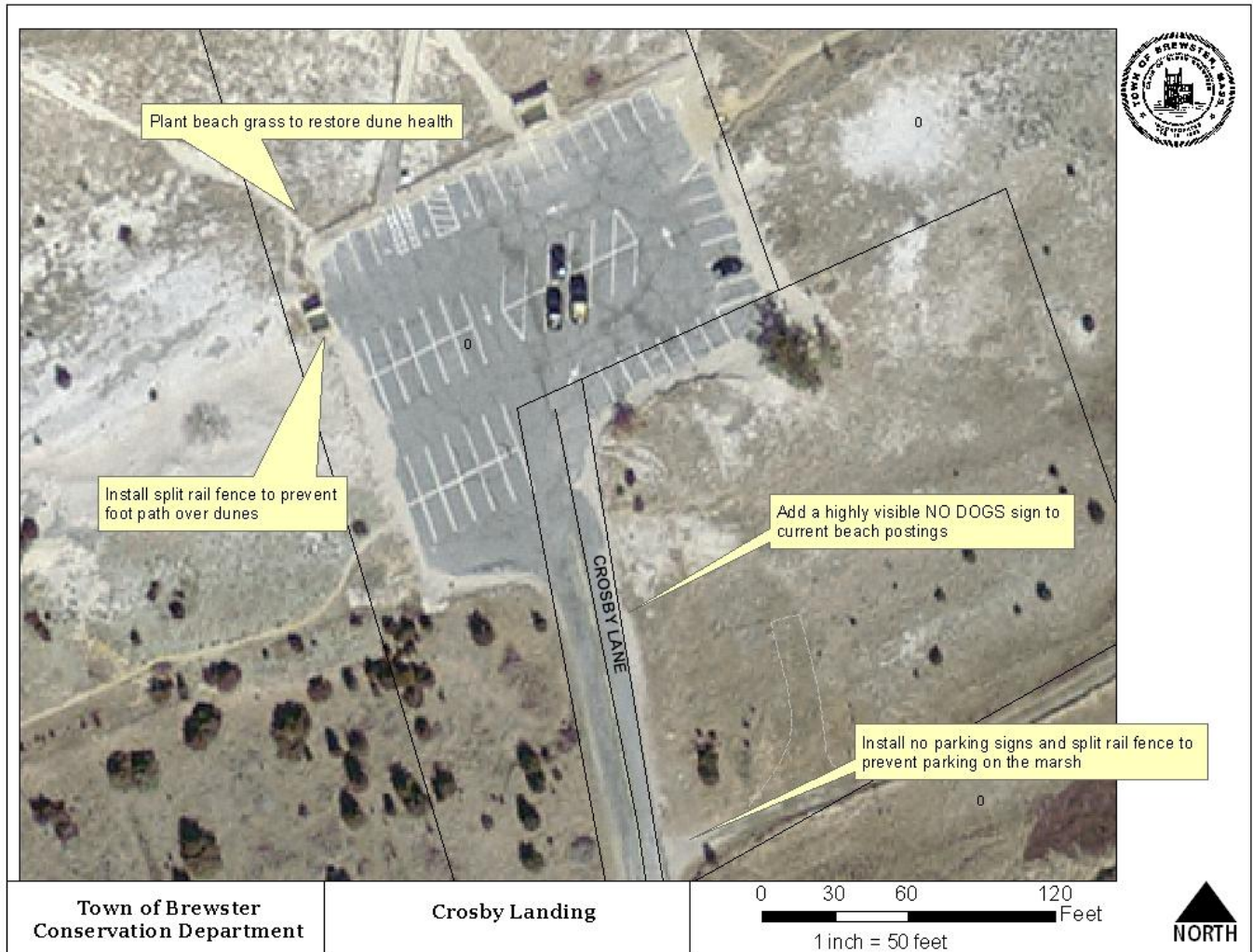
Status:

The coastal dune is accreting (growing) at approximately 0.75 feet per year. The previous wooden boardwalk was replaced with a seasonal (May – Sept.) sturdy cloth boardwalk that is easier managed with migrating sand. This has ensured handicap access will be available this year.

CROSBY BEACH

Crosby Beach recommendations

Updated 1-25-12



Immediate Recommendations:

We have closed off the footpath near the NW corner of the parking lot with split rail and snow fencing. The next step would be to plant additional beach grass and shrubs to promote dune and habitat restoration.

Install split rail fence (area marked above) to prevent foot traffic across sensitive dune habitat. These undesigned beach access points have created a series of short cut paths to the beach and have promoted erosion and dune destruction.

Improve no dog regulations by adding a highly visible sign at the location marked above.

Install no parking signs and split rail fencing at the entrance of the fire road. Last year there was illegal parking in this area that negatively impacted the marsh.



Currently there are temporary barricades restricting access to this area. Additional signage and split rail fence would help prevent illegal parking and damage to the marsh habitat.



Current beach parking regulations

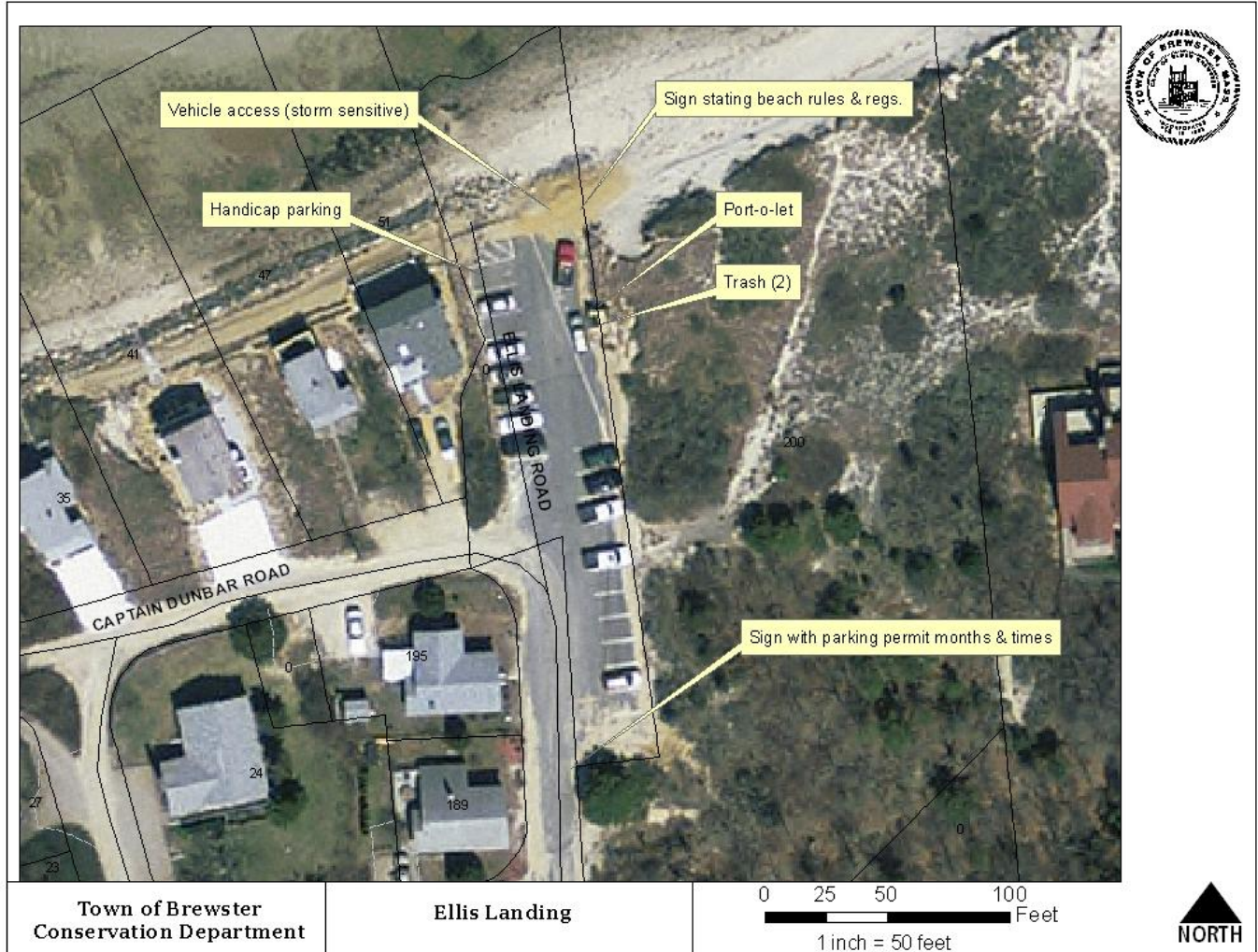


Recommended example of additional NO DOGS

ELLIS LANDING

Ellis Landing 2012 existing amenities and signage

Updated 1-25-12



Location: At the end of Ellis Landing Road. Map 7, lot 16.1

Parking: 19 spaces including one handicap spaces. Permit required June 15 to Labor Day, 9am to 3pm.

Amenities: One port-o-let and two trash containers, Memorial Day to Labor Day (inclusive). Coastal access point for aquaculture, emergency beach access for boats and vehicles.

Erosion: -0.66 feet per year lost.

Features: Popular beach in summer. Town and private aquaculture areas use this landing for access to the beach. Location of spring/fall littleneck shellfishing and fall oyster Sundays program.

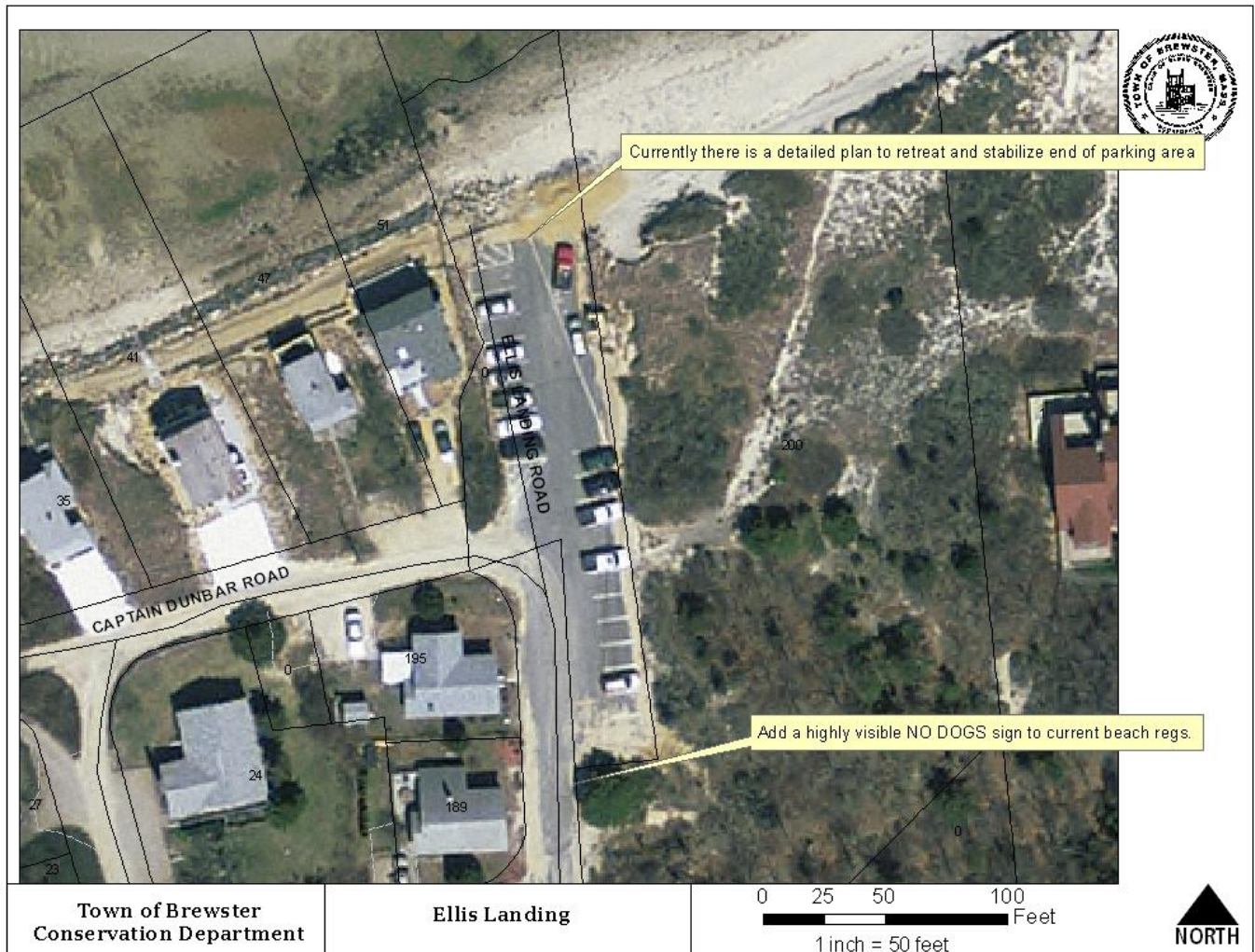
Undeveloped property (dune) directly adjacent to the east is owned by Brewster Conservation Trust, and provides additional beach area for residents.

The properties to the west are protected on their northern edge by a stone revetment. The revetment extends partially onto the town landing property.

ELLIS LANDING

Ellis Landing recommendations

Updated 1-25-12



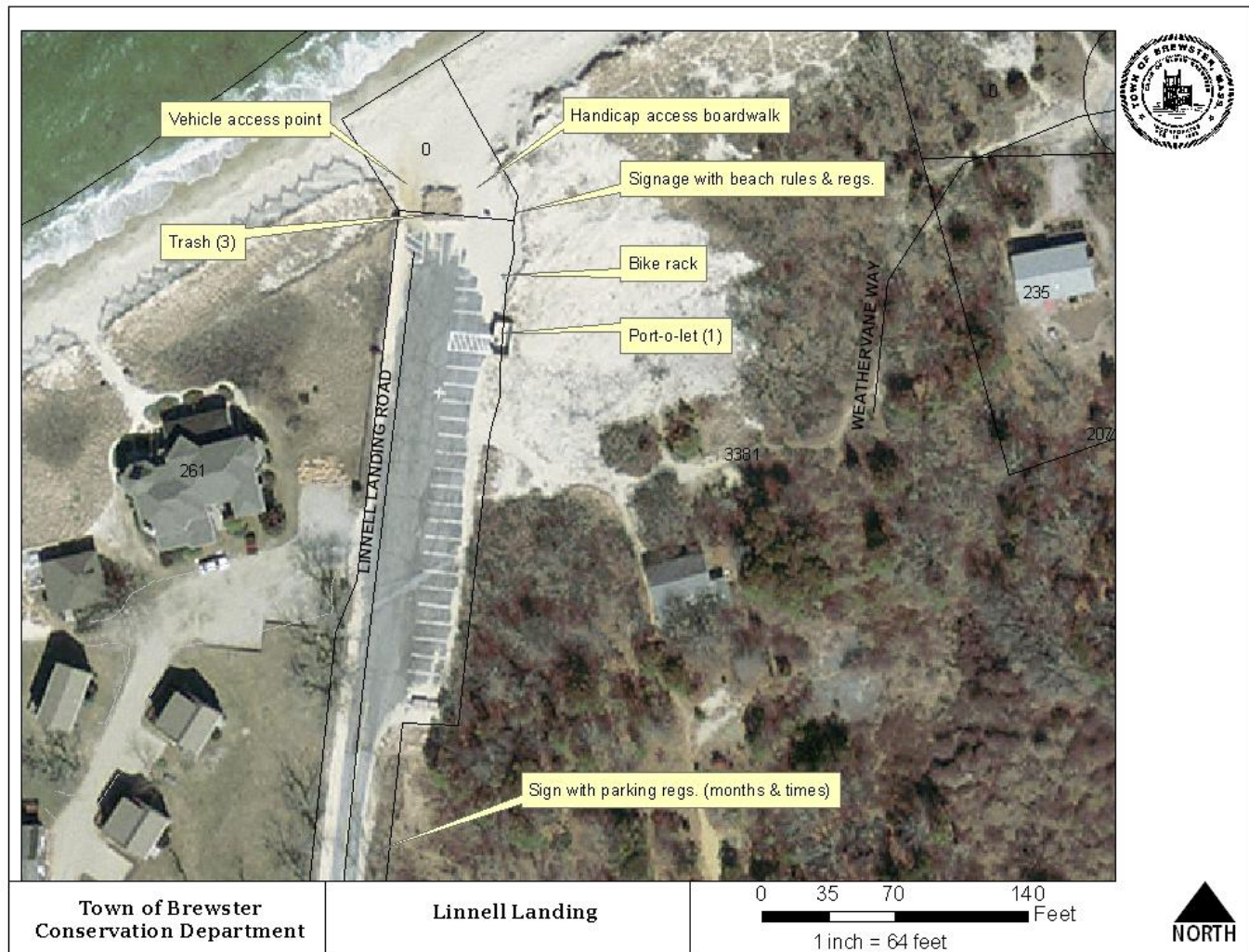
Immediate Recommendations:

Improve no dog regulations by adding a highly visible sign at the location marked above.



Linnell Landing 2012 existing amenities and signage

Updated 1-25-12



Location: End of Linnell Landing Road. Map 9, lot 1.1

Parking: 25 spaces including two handicap spaces. Permit required June 15 to Labor Day, 9am to 3pm.

Amenities: One port-o-let and three trash containers, Memorial Day to Labor Day (inclusive). Coastal access point for aquaculture, emergency beach access for boats and vehicles.

Erosion: -0.26 to -0.62 feet per year lost.

Features: Popular beach in summer. Property to east is owned by State (behind Cape Rep Theater), then Crosby Landing and State property to town line at Namskaket Marsh.

The parking area is protected by a minimal dune located between two access areas to the beach. The western access is unimproved except by stones placed to minimize storm water erosion. The eastern access has a small wooden boardwalk/platform which provides handicap access to beach.

LINNELL LANDING

Linnell Landing recommendations

Updated 1-25-12



Immediate Recommendations:

Improve no dog regulations by adding a highly visible sign at the location marked above.

Repair or replace the existing port-o-let enclosure.

Support the small dune located between the entrances with a short section of sturdy sand drift fencing and nourish with sand and beach grass.



Current beach parking regulations



Recommended example of additional NO DOGS



Recommended repairs to port-o-let enclosure. Boards need to be replaced and paint needs to be applied.

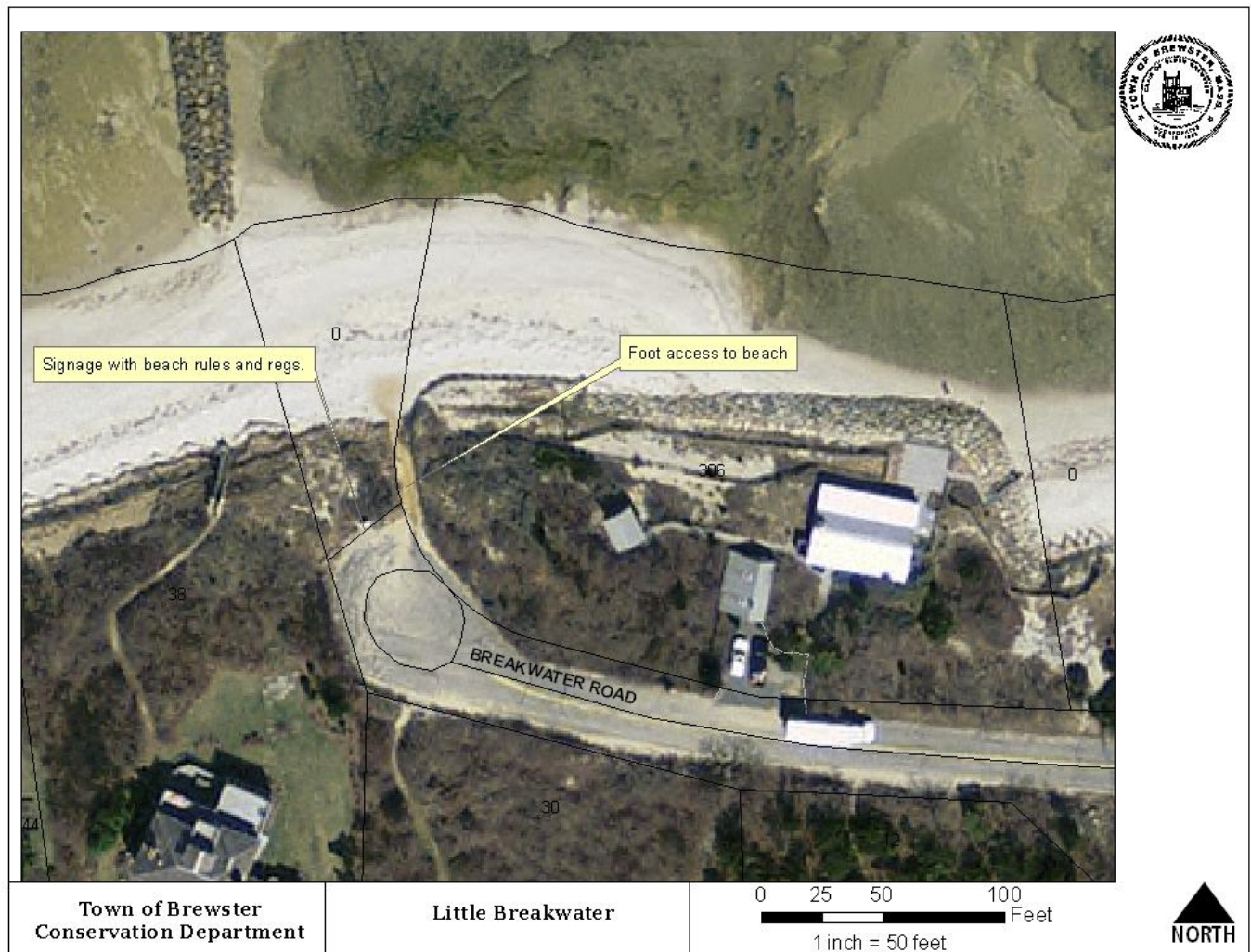


Recommended site for installing sturdy section of sand drift fencing and beach grass.

BREAKWATER LANDING (aka LITTLE BREAKWATER)

Breakwater Landing 2012 existing amenities and signage

Updated 1-25-12



Location: At the end of Breakwater Road. Map 4 lot 55-1.

Parking: Unmarked parking; space for approx. 5 vehicles.

Erosion: -0.62 feet per year lost.

Features: This smaller landing provides a scenic overview of the bay, and access to a small beach area.

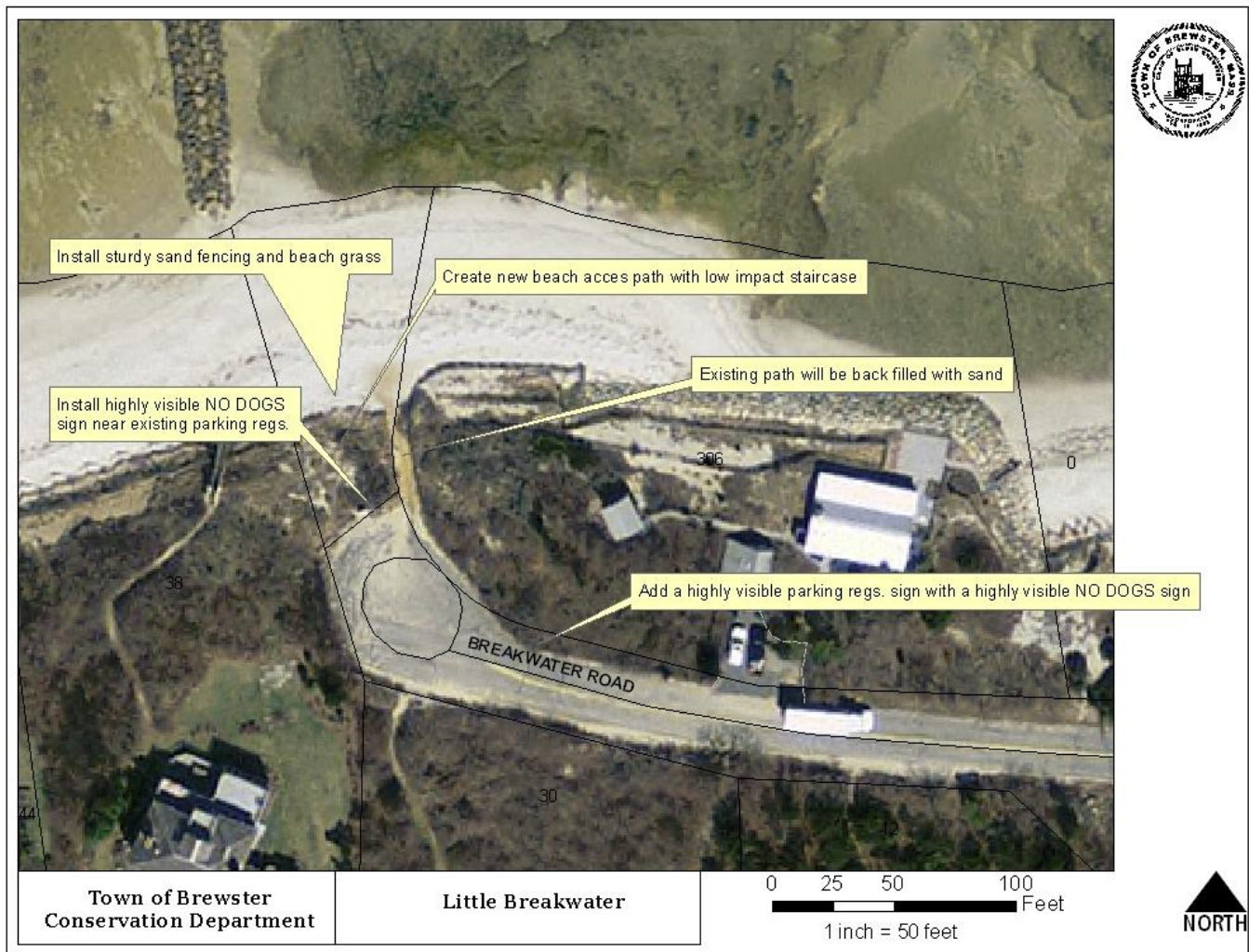
Status: The coastal dune is eroding at approximately 0.62 feet per year. In approximately 10 years, the edge of the parking lot will begin to be threatened.

The foot access path to the beach has experienced significant erosion and has created a steep gully with a drop off at the top of the path and on the bottom near the beach.

BREAKWATER LANDING (aka LITTLE BREAKWATER)

Breakwater Landing recommendations

Updated 1-25-12



Immediate Recommendations:

Install a highly visible sign at the entrance to the parking loop that states parking regulations and dog regs.

Create new beach access path and install stairs to the beach. The new beach access point will be located to the west of the current path. Currently there are plans to build and install these stairs in Spring 2012.

Install sturdy sand fencing at the base of the landing to reduce coastal erosion.

Improve no dog regulations by adding a highly visible sign at the location marked above.



Current beach parking regulations



Recommended sign for dog regulations



Location of the sturdy sand fence installation and beach grass planting. Stabilizing this area would help protect the dune in front of the parking area. At current erosion rates, in approximately 10 years the edge of the parking lot will be threatened.



Drop off at the top of the parking area



Drop off at the bottom of the path (near the beach)



Current foot path used for beach access



Current foot path used for beach access



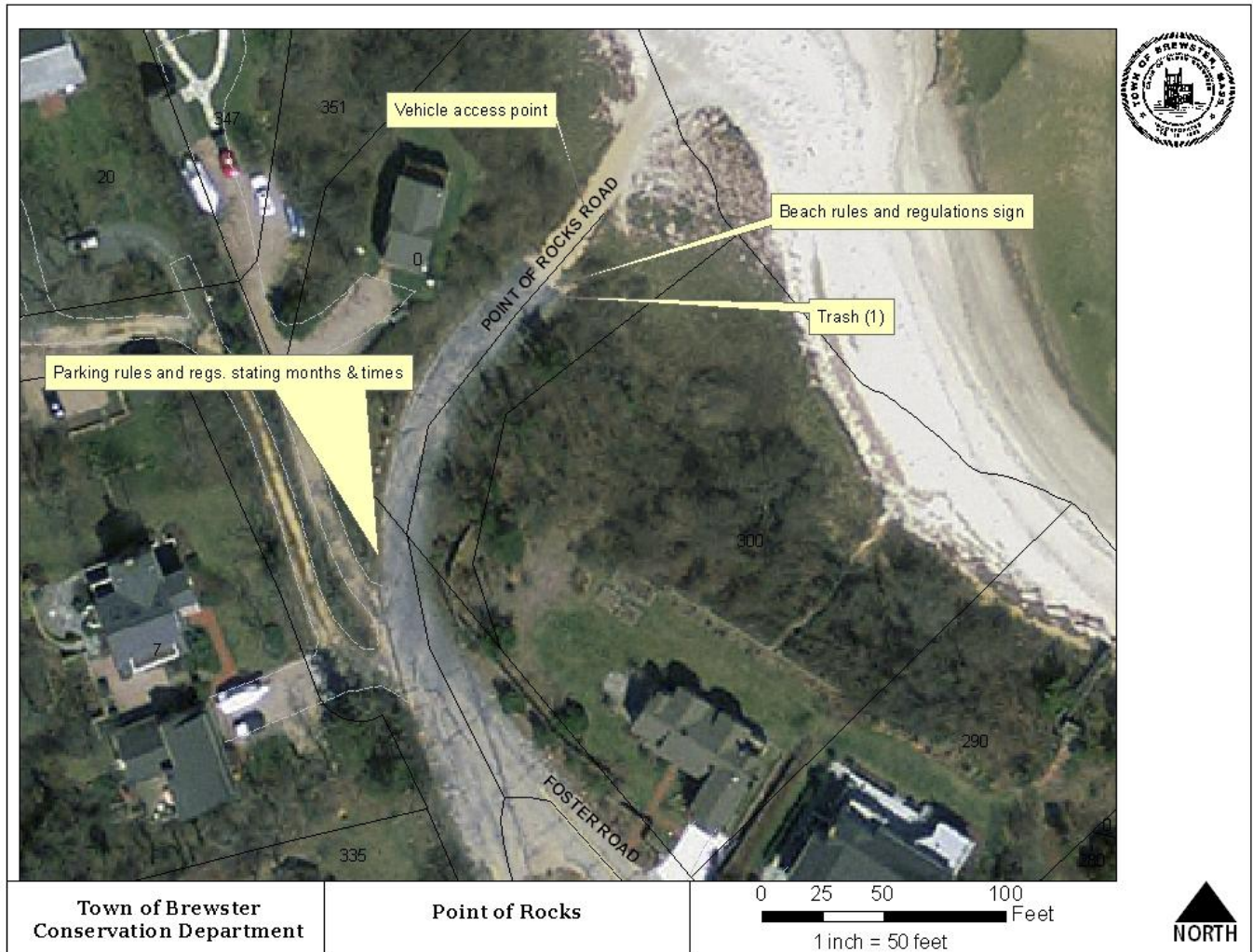
This past will be abandoned and backfilled with sand



POINT OF ROCKS LANDING

Point of Rocks Landing 2012 existing amenities and signage

Updated 1-25-12



Location: End of Point of Rocks Road, Map 6 lot 7-1.

Parking: 0 spaces marked; approximately 3 cars at landing, three more at triangle in roadway to south by Foster Road intersection.

Erosion: Unknown. Remnant salt marsh is eroding.

Features: Small coastal access point with limited parking, sandy beach is popular with area residents.

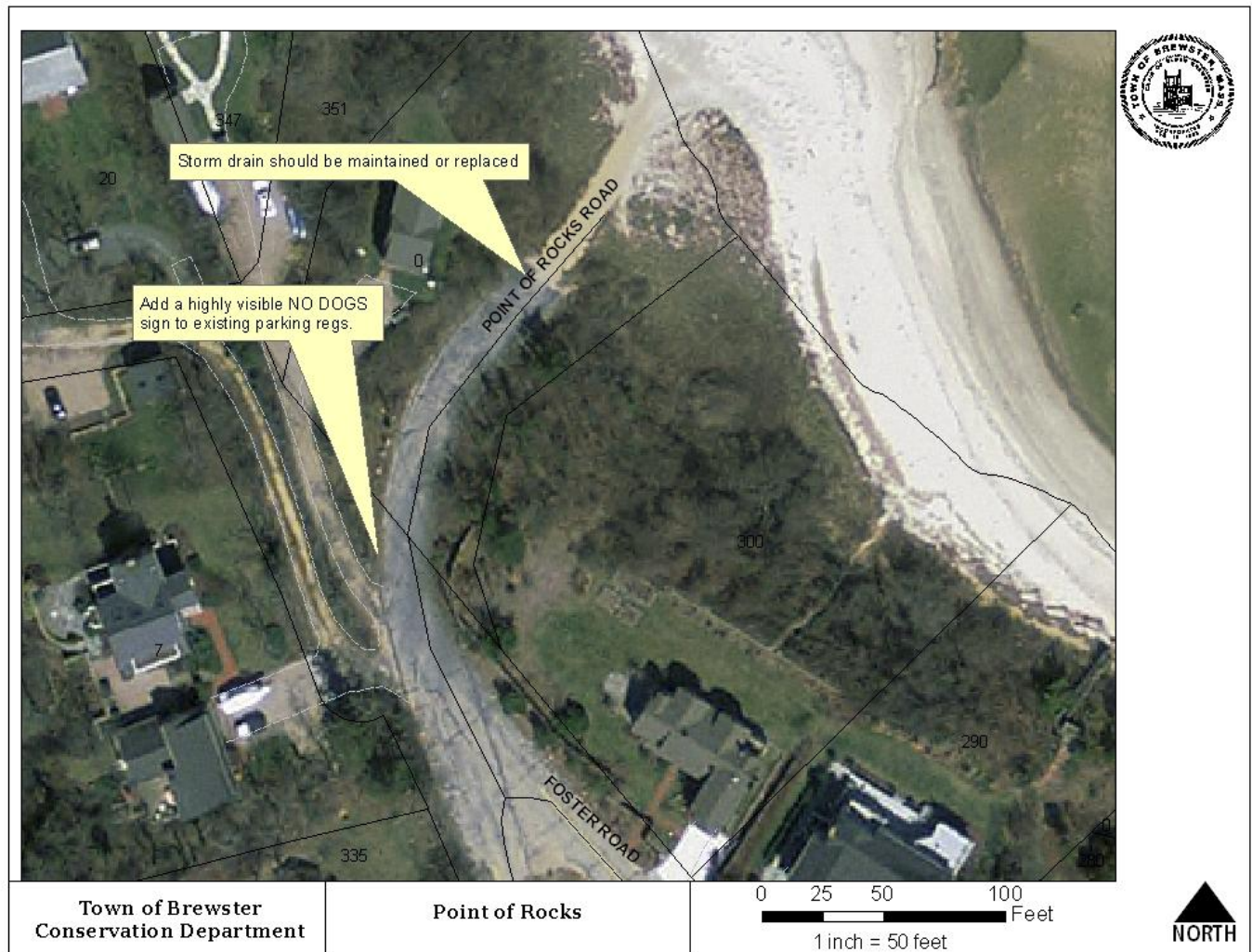
Status: No visible damage this winter.

Longer Term Recommendations: The stormwater basin at this landing is non functional and should be maintained or replaced. Beach parking permit signs should be placed at the triangle in the roadway and formal parking places marked.

POINT OF ROCKS LANDING

Point of Rocks Landing recommendations

Update 1-25-12



Install a highly visible NO DOGS sign near the parking regs.
Maintain or replace the storm drain indicated above.



Current beach parking regulations

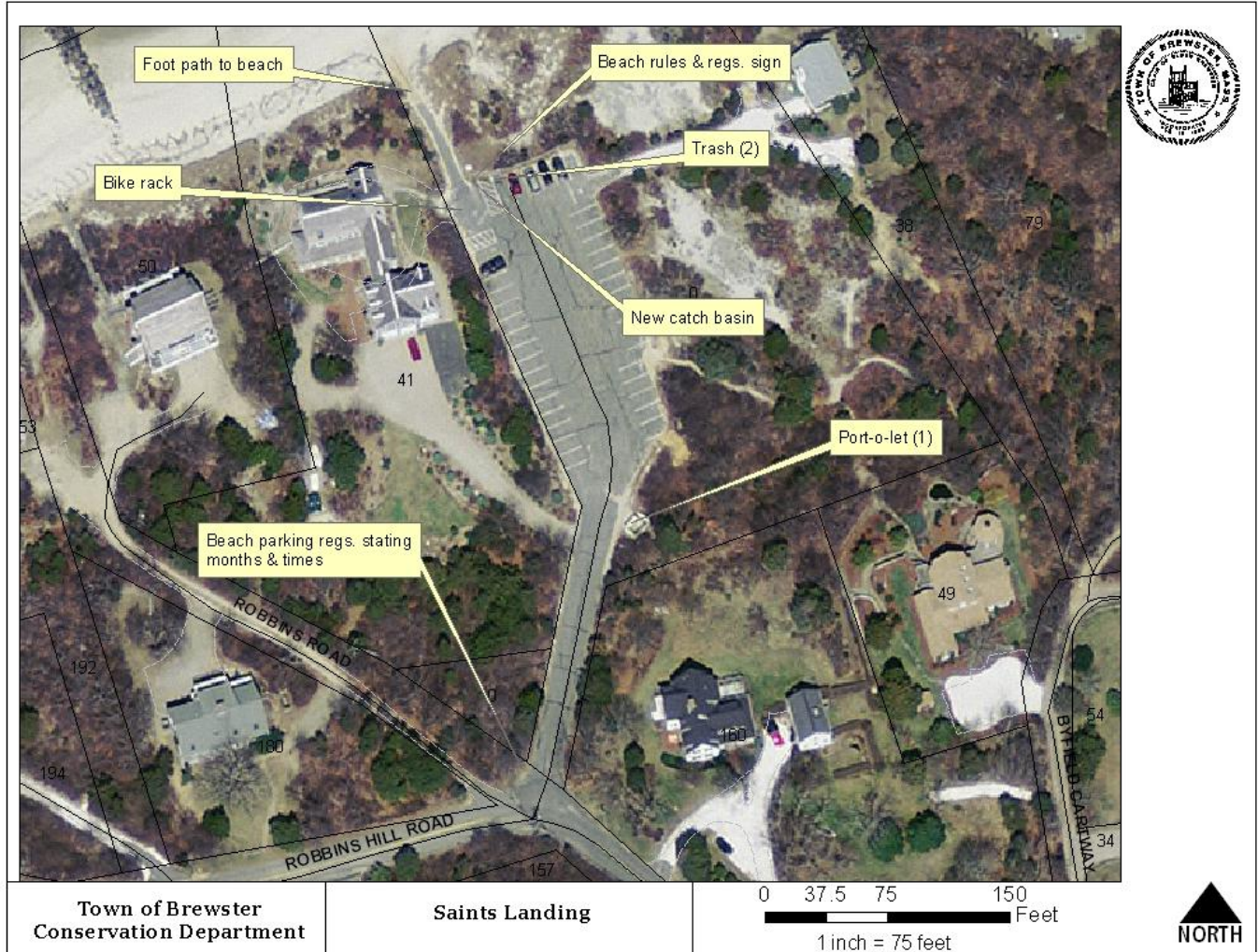


Recommended sign for dog regulations

SAINTS LANDING

Saints Landing 2012 existing amenities and signage

Updated 1-25-12



Location: Off Robbins Hill Road at first bend. Map 3, lot 2.

Parking: 38 parking spaces including two handicap spaces. Permit required June 15 to Labor Day, 9am to 3pm.

Amenities: One port-o-let and two trash containers, one bike rack Memorial Day to Labor Day (inclusive). No vehicle access to the beach. Storm water over flow from parking area sent onto beach and rip rap via 18" corrugated metal pipe.

Erosion: -0.43 feet per year lost.

Features: Popular beach in summer. Small anchorage located on flats to north of groin at east side of beach area. Summer stocking program for shellfishing is run from this landing. The parking area is protected by a dune. Further east is a back dune area currently undeveloped except by a driveway across the town land to a residence.

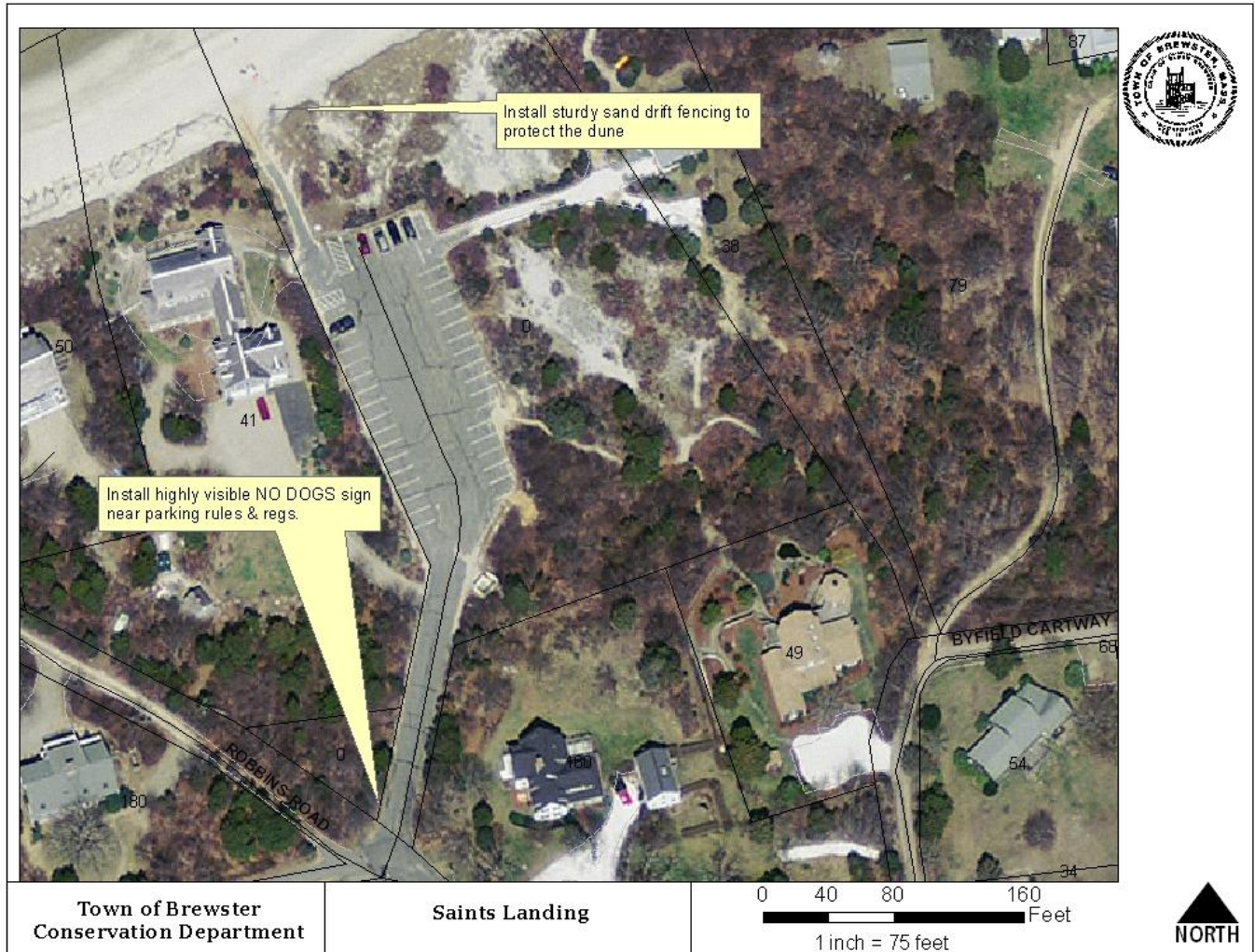
Status:

The coastal dune is eroding at approximately 0.75 feet per year. At this rate, in approximately 15 years the edge of the parking lot will begin to be threatened.

SAINTS LANDING

Saints Landing recommendations

Update 1-25-12



Immediate Recommendations:

Install a highly visible sign at the entrance to the parking lot that reads NO DOGS.

Install sturdy sand fencing and beach grass plantings at the base of the landing to reduce coastal erosion.



Current beach parking regulations



Recommended sign for dog regulations



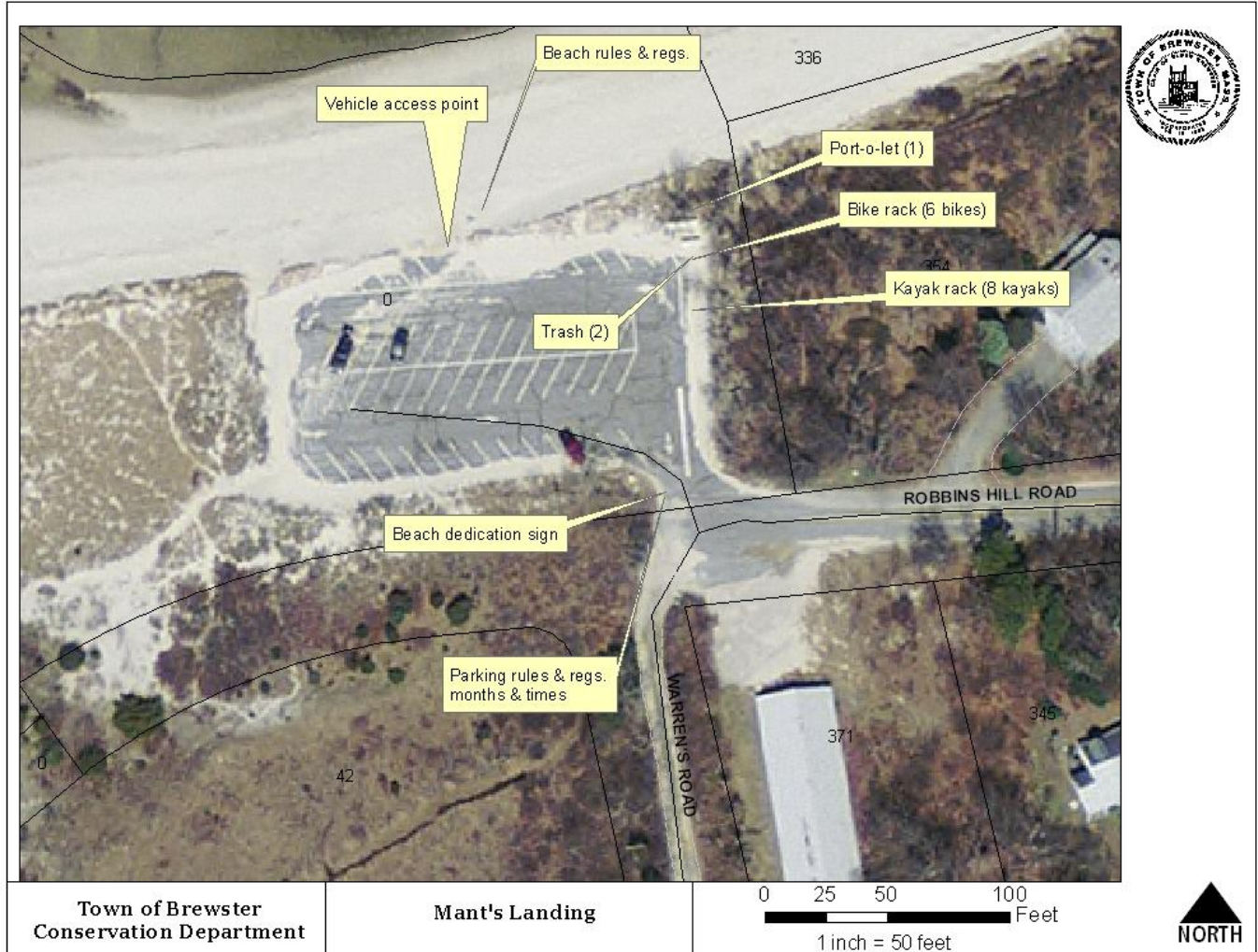
Area east of beach path recommended for sturdy sand drift fencing installation and beach grass plantings



MANTS LANDING

Mants Landing 2012 existing amenities and signage

Updated 1-25-12



Location: End of Robbins Hill Road, Map 2, Lot 1

Parking: 44 spaces including two handicap spaces. Permit required June 15 to Labor Day, 9am to 3pm.

Amenities: One port-o-let and two trash containers, bike rack, kayak rack. Memorial Day to Labor Day (inclusive). Access point for aquaculture, emergency access for boats and vehicles.

Erosion: -1.97 to -2.1 feet per year lost.

Features: Popular beach in summer; adjoins Paines Creek to the west. Anchorage located on flats to west of parking lot. Town shellfish grant plus three private grants on flats due north of parking area.

Parking lot is situated at the end of Robbins Hill Road at a low point adjacent to the beach. The parking area is protected by a minimal dune supported in part by split rail fencing at the parking lot's northern edge. Further west is a dune area fronted by a sandy beach and remnant salt marsh.

Status:

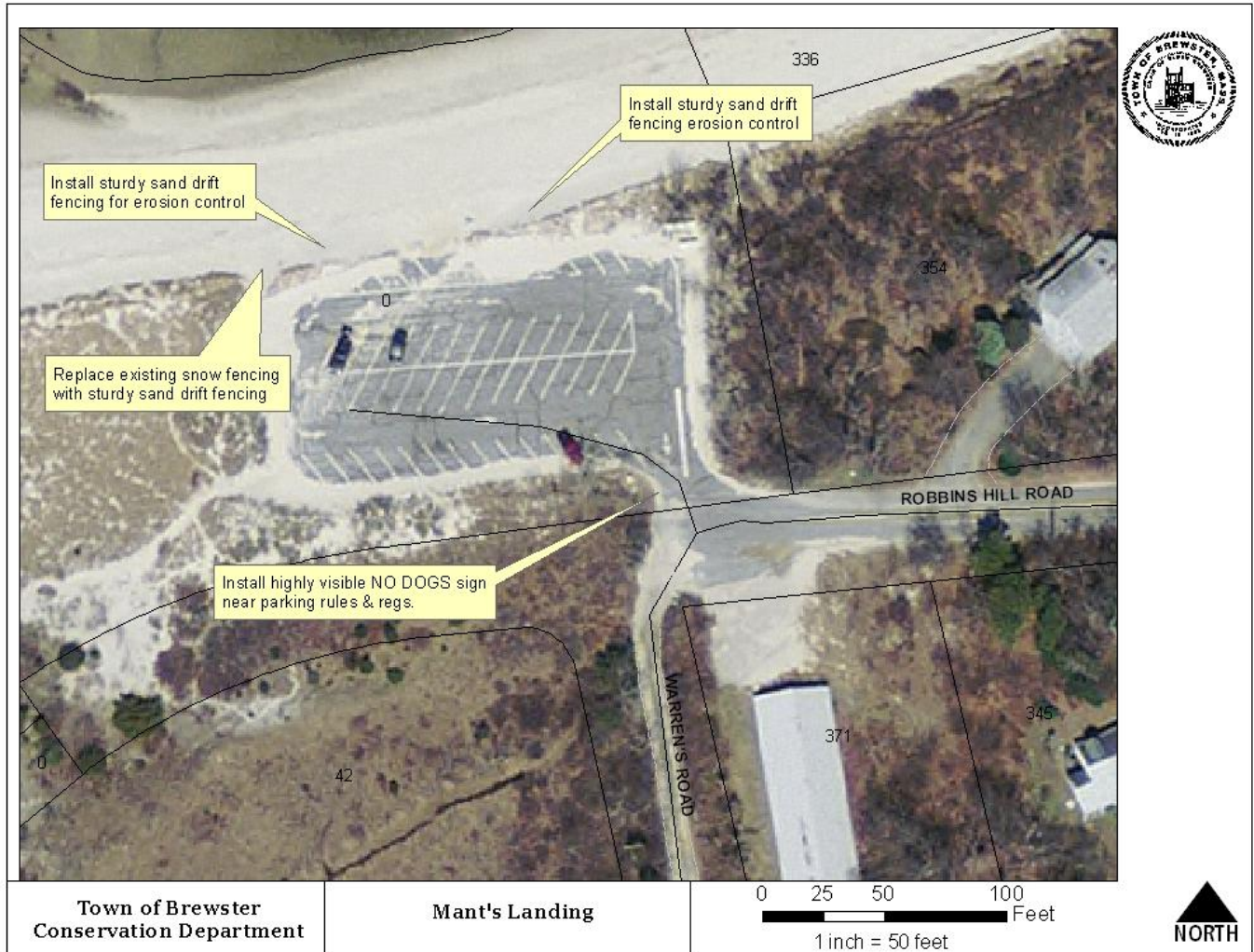
Recent winter storms have depleted the protective dune along the northern end of the parking area. Frequent wash over into the parking area is observed in severe storms with a northerly wind direction.

MANTS LANDING

Mants Landing recommendations

Update 1-25-12

Immediate Recommendations:



Install a highly visible sign at the entrance to the parking lot that reads NO DOGS.

Install sturdy sand fencing and beach grass plantings on both sides of the public beach access. Recent winter storms have washed away the protective dune along the north end of the parking area. During severe storms water frequently washes over the dunes into the parking lot.



Current beach parking regulations



Recommended sign for dog regulations



Recommended site for sturdy sand drift fencing
(West side of beach entrance)



Recommended site for sturdy sand drift fencing
(East side of beach entrance)



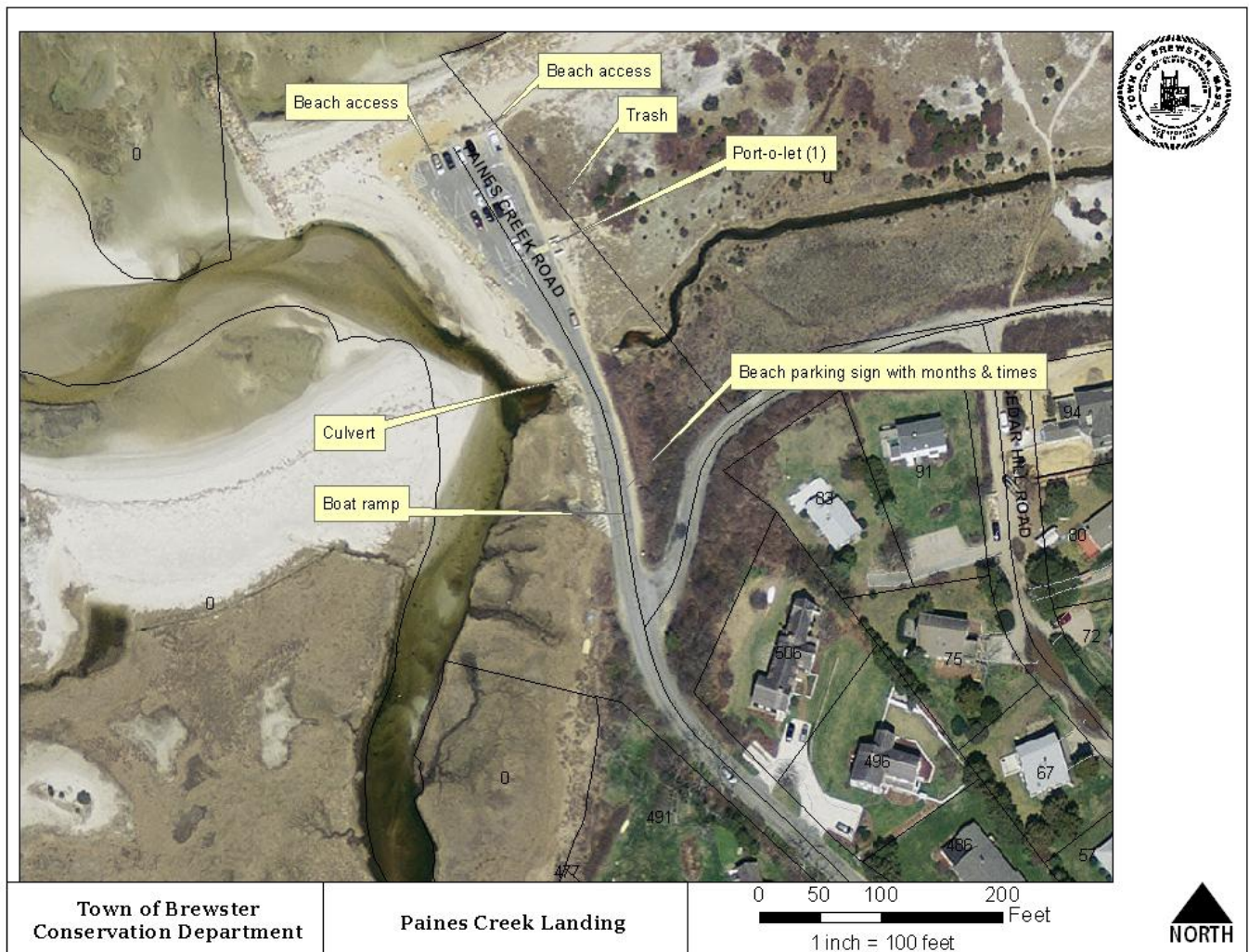
Replace existing snow fencing with sturdy sand drift fencing



PAINES CREEK LANDING

Paines Creek Landing 2012 existing amenities and signage

Updated 1-25-12



Location: End of Paines Creek Road. Map 1 lot 6.

Parking: 14 spaces (with new parking lot configuration) including one handicap space. Permit required June 15 to Labor Day, 9am to 3pm.

Amenities: One port-o-let and two trash containers, bike rack (8 bikes), three kayak racks (22+ kayaks). Memorial Day to Labor Day (inclusive). Small boat ramp before entrance to parking area provides Brewster's only boat ramp *shallow draft, usable only at mid to full tides*.

Erosion: -2.33 feet per year lost.

Features: Extremely popular beach year round due to swimming area and scenic vistas. Anchorage located on flats to north and east. Directly adjacent to Paines Creek on the west side of the landing.

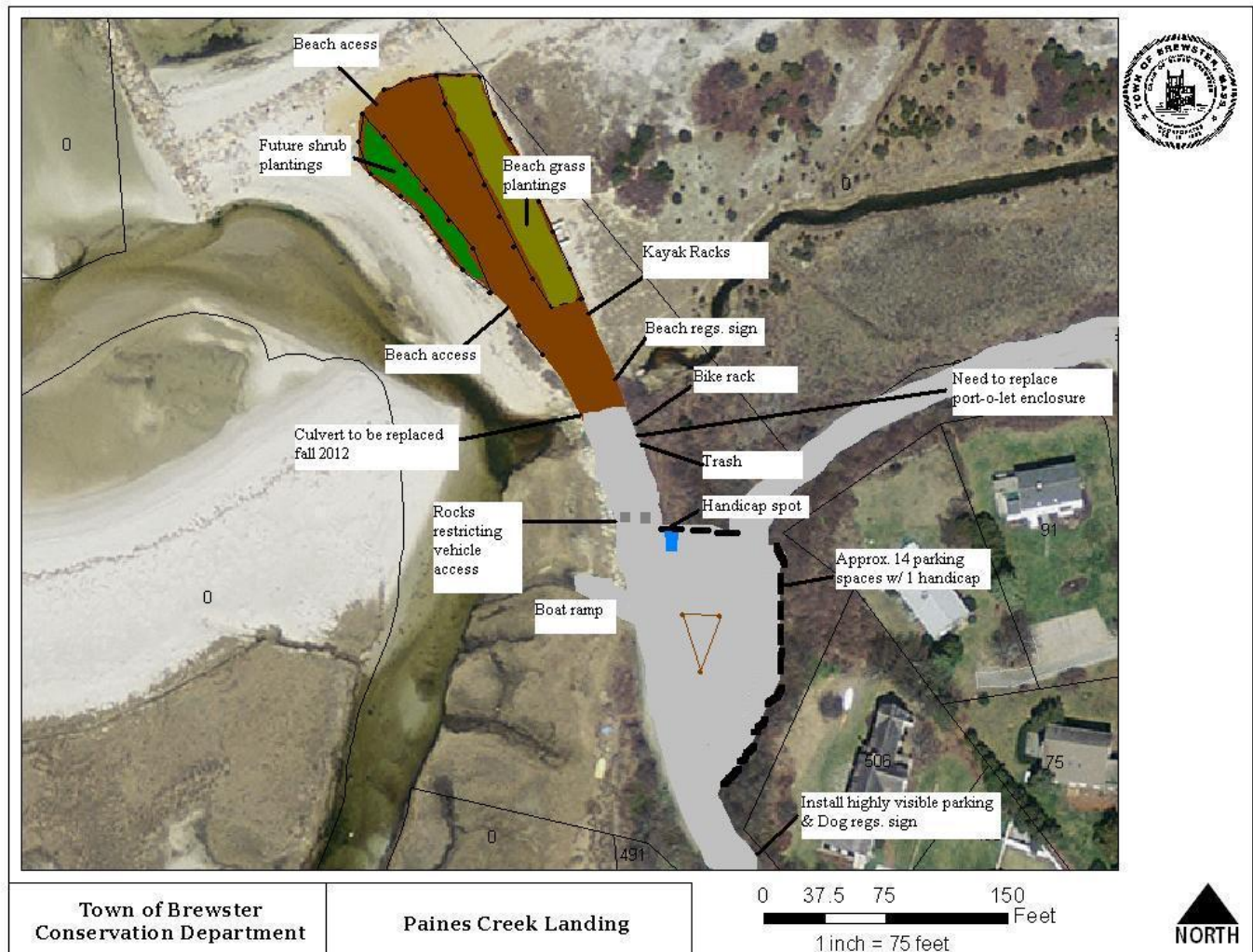
The parking area has been reconfigured so the previous parking lot is now a sandy beach access path with beach grass plantings and coastal shrubs on both sides. This area is protected on the north by a short revetment and groin, and by a dune. Further east is a back dune area and a small tidal stream leading to Freemans Pond, the only salt pond in town. The stream crosses under the access path near its entrance through an undersized and partially damaged culvert.

Status:

The coastal dune is eroding at approximately 2.33 feet per year. The coastal revetment has subsided and waves can breach to wash out the northern end of the beach. The northeast corner and western side is most vulnerable to storm and wave damage. With the 2011 and 2012 beach nourishment and planting plan, this area should be able to stabilize and begin to grow in the future.

New Layout Paines Creek Landing 2012 existing amenities, signage & recommendations

Updated 1-25-12

**Immediate Recommendations:**

Install highly visible parking regs. And NO DOGS sign where indicated above.

Reconfigure parking area with clearly marked parking spaces

Install new port-o-let enclosure

Replace existing culvert (Project set to begin fall 2012)

Replace split rail and snow fencing on west end of new beach area

Continue beach plantings by install shrubs in designated area



Establish a new parking layout with designated parking spots



Install a highly visible sign in this area stating parking regulations and NO DOGS policies



Install a highly visible NO DOGS sign



Replace existing split rail fencing and snow fencing where existing fencing was



Location of future shrub plantings as marked on the map above



Install new Port-o-let enclosure

SPRUCE HILL CONSERVATION AREA

Spruce Hill Conservation Area North 2012 existing amenities and signage

Updated 1-25-12



Location: Behind the Brewster Historical Society. Map 8 lot 9, Map 13 lot 8-9, 29.

Parking: 12 spaces (approx) located at the south end of the carpath to the beach, approximately ½ mile from the beach.

Erosion: -0.39 feet per year lost.

Features: This landing provides a scenic overview of the bay, and access to a small beach area popular with shellfishermen. Access to the landing is by foot over a long carpath. This carpath also provides emergency access to the beach via vehicle to the top of the coastal bank and stairway. Under the care of the Conservation Commission.

Status:

The coastal dune is eroding at approximately 0.39 feet per year. The existing overlook and stairway is in danger of collapse onto the beach, and needs to be removed and rebuilt. Last year we added about 10 feet in length to the stairway as it ended about 3 feet above the beach. This longer stair was buried into the beach. This year the drop to the beach is about 4' due to continued erosion.

The winter storms have severely eroded the bank, losing at least 10 feet over the last year. Two areas of the dune that show blowouts/erosion were protected with sturdy sand fencing and beach grass plantings last spring. The severe erosion removed about 4 feet of the beach (depth) and the plantings are gone, except further up into the dune in the area of the blowout. DNR installed additional split rail fencing in several areas last year to combat the social trails and lessen dune erosion by keeping people and pets on the main trail and stairs.

There is a small freshwater wetland or vernal pool located very near the bluff that will eventually be lost as the bluff erodes south.

Spruce Hill Conservation Area South 2012 existing amenities and signage

Updated 1-25-12



Spruce Hill Conservation North Area recommendations

Update 1-25-12

Spruce Hill Conservation Area North Immediate Recommendations



Immediate Recommendations:

Currently there is an approved plan to remove the existing stairs and replace them with something that will reduce impact on the dune and provide a safe access point to the beach. In addition to the stairs it is recommended that sturdy sand drift fencing be installed on both sides of the stairs and beach grass planted behind. This will help to stabilize the current dune and act as a buffer during winter storms.

Install a highly visible beach regulations and NO DOGS sign at beach access point



Evidence of increased erosion because of foot traffic



Condition of stairs has become dangerous



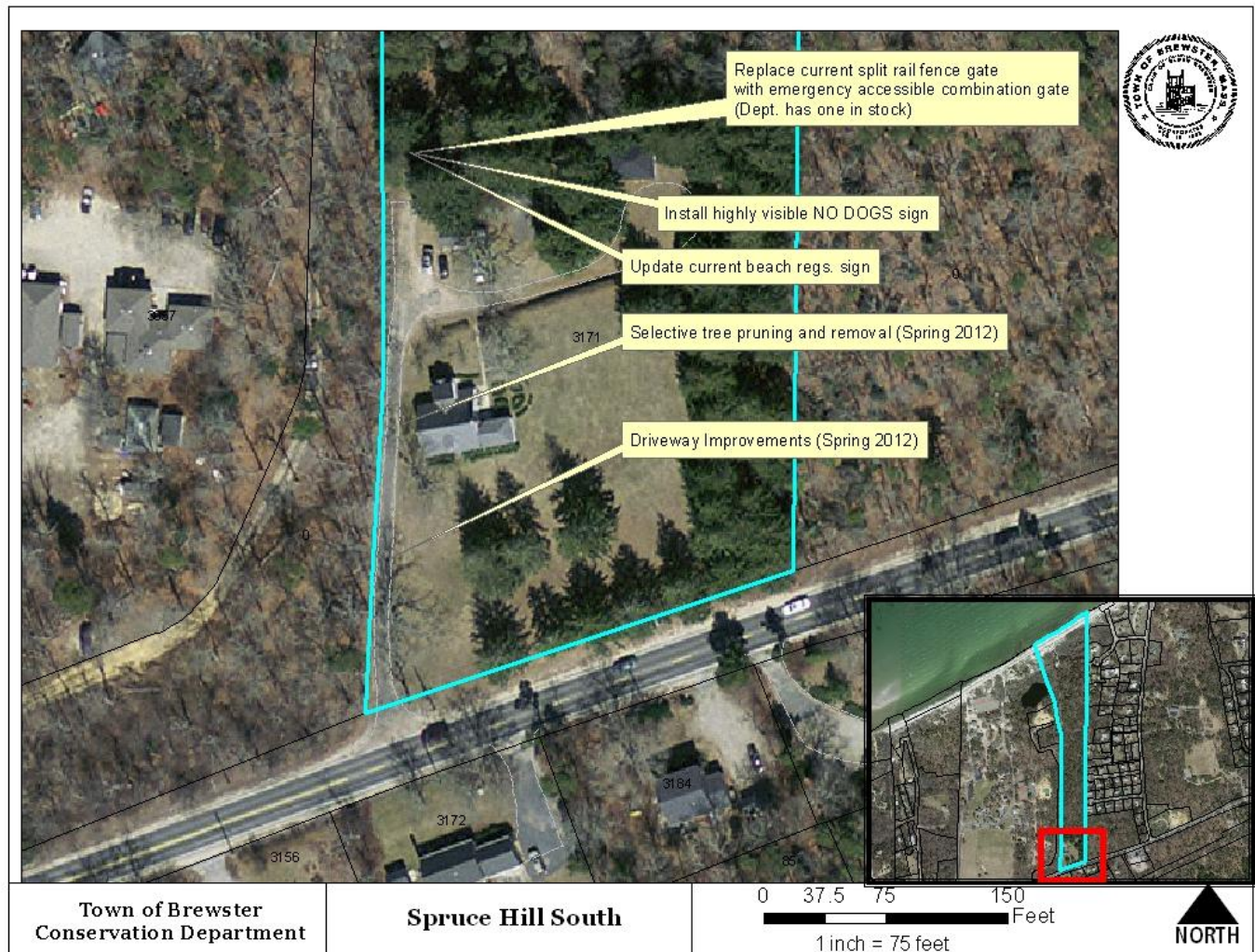
Replace existing stairs with a low impact design



Install sturdy sand drift fencing on both the east and west side of the stairs



Spruce Hill Conservation Area South Immediate Recommendations



Replace existing split rail fence with emergency vehicle accessible gate with combination lock. The DNR currently has one in their inventory. This will improve maintenance access as well as emergency vehicle access.

Install a highly visible NO DOGS sign

Update current beach regulations sign

Selective pruning and tree removal set for Spring 2012 (DPW)

Driveway improvements set for Spring 2012 (DPW)



Install a highly visible NO DOGS sign



Install a emergency accessible gate with combination lock.



Selective limb and tree removal along entrance way



Entrance repairs to driveway. Current driveway is broken and signs of erosion are present.